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APPLICATION NO	. Г	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,929	10/602,929 06/24/2003		Lutz Heuer	CH-7669/LeA 35,313	1865
34947	7590	04/25/2005	EXAMINER		INER
LANXES			DAVIS, BRIAN J		
		ST DRIVE 15275-1112		ART UNIT	PAPER NUMBER
	,			1621	
				DATE MAILED: 04/25/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/602,929	HEUER, LUTZ				
	Office Action Summary	Examiner	Art Unit				
		Brian J. Davis	1621				
Period fo	The MAILING DATE of this communication ap	ppears on the cover sheet with the c	l L				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	is action is non-final.	·				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	5)⊠ Claim(s) <u>1,2,4 and 8-12</u> is/are allowed.						
6)⊠	☑ Claim(s) <u>3,5-7</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[_	Claim(s) are subject to restriction and/	or election requirement.					
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) 🗌	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119		•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment	(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/24/03;11/1/04. Paper No(s)/Mail Date 6/24/03;11/1/04. Paper No(s)/Mail Date 9/24/03;11/1/04. Paper No(s)/Mail Date 9/24/03;11/1/04.							
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear exactly to what set of related compounds applicant wishes to refer by the phrase: "... ammonium chloride *or its related compounds* [emphasis added]...".

Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear exactly to what sets of compounds applicant wishes to refer by the phrases: "... distillation residues of tetraethylenepentamine... distillation residues of hexaethyleneheptamine... distillation residues of pentaethylenehexamine."

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear exactly to what set of polyamines applicant wishes to refer by the phrase: "... the group of reaction products of dichloroethane with ammonia and/or amines or from the group of reaction products of ethylene oxide with ammonia or amines."

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear how variables p and t can be any integer other than 2 (for reasons of coordinative saturation). It is unclear how variable r can be any value other than 1. It is unclear how the nitrogens may be triply or quadruply bonded when formulas (I) and (II) do not encompass a quadruply bonded nitrogen.

Allowable Subject Matter

Claims 1, 2, 4 and 8-12 are allowed. The remaining claims would be allowable once the 112 rejections outlined in this Office Action have been overcome. The following is a statement of reasons for the indication of allowable subject matter:

The closest prior art appears to be GB 1351050, cited by applicant in the IDS, which teaches a process for decolorizing polyethylene polyamines, which comprises distilling the polyethylene polyamine in the presence of a polyethylene polyamine hydrochloride (column 2 line 66). The set of polyethylene polyamines are considered by the author to include ethylene diamine, but more specifically refer to polyethylene polyamines containing the group –(CH₂CH₂NH)_n– (column 1 line 14). The reference neither teaches nor suggests that dibenzylamine, or more broadly, that secondary aromatic monoamines such as dibenzylamine, may be decolorized in such a fashion.

At best, it might have been obvious to try the method of the cited prior art in the decolorization of dibenzylamine, or in the decolorization of secondary aromatic monoamines in general, however, an 'obvious to try' standard is impermissible in two

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situations: 1) where the prior art gives no indication as to which of numerous parameters are critical, or gives no indication as to which of many possible choices is likely to be successful; and 2) where the prior art gives only general guidance with respect to the form of the invention but not how to achieve it new areas of technology or in fields of experimentation which are only seemingly promising. *In re O'Farrell*, 853 F2d 894, 7 USPQ 2d 1673, 1681 (Fed. Cir. 1988). In the instant case, both 1) and 2) apply.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: US 5,107,024, US 5,321,159 and US 4,709,009 are cited to show related aromatic amine purifications.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Davis whose telephone number is 571-272-0638. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian J. Davis

April 12, 2005